

WHAT IS CLAIMED IS:

1. A method for manufacturing an organic EL display by an ink jet method, wherein an uniform organic EL layer is formed by a process of discharge-placing, on a heated substrate, at least an organic EL material in the form of solution, and a process of drying the organic EL material in the form of ink, placed on the substrate, by heating.

2. The method for manufacturing an organic EL display according to Claim 1, wherein the organic EL material is discharged, on a heated substrate, while controlling to a constant temperature by cooling.

3. The method for manufacturing an organic EL display according to Claim 1, wherein the organic EL material is uniformly formed at a plurality of pixel openings placed in the form of two-dimensional matrix on a substrate, while relatively moving the nozzle and the substrate.

4. An apparatus for manufacturing an organic EL display, comprising: a heating temperature controlling mechanism on a stage supporting a substrate; a nozzle cooling temperature controlling mechanism; mechanism of discharge-placing, on a heated substrate, at least an organic EL material in the form of solution which is kept under constant temperature condition; and a mechanism of drying the organic EL material in the form of ink, placed on the substrate, by heating.

5. The apparatus for manufacturing an organic EL display according to Claim 4, wherein the nozzle cooling temperature controlling mechanism is a chiller, a Peltier element, or a

combination thereof.

6. A method for manufacturing a color filter by an ink jet method, wherein a uniform coloring layer is formed by a process of discharge-placing, on a heated substrate, a dye material in the form of solution, and a process of drying the dye material in the form of ink, placed on the substrate, by heating.

7. The method for manufacturing a color filter according to Claim 6, wherein the dye material is discharged, on a heated substrate, while controlling to a constant temperature by cooling.

8. The method for manufacturing a color filter according to Claim 6, wherein the dye material is uniformly formed at a plurality of pixel openings placed in the form of two-dimensional matrix on a substrate, while relatively moving the nozzle and the substrate.

9. An apparatus for manufacturing a color filter comprising: a heating temperature controlling mechanism on a stage supporting a substrate; a nozzle cooling temperature controlling mechanism; mechanism of discharge-placing, on a heated substrate, at least a dye material in the form of solution which is kept under constant temperature condition; and a mechanism of drying the dye material in the form of ink, placed on the substrate, by heating.

10. The apparatus for manufacturing a color filter according to Claim 9, wherein the nozzle cooling temperature controlling mechanism is a chiller, Peltier element, or a combination thereof, surrounding the nozzle.

11. An electronic device using an organic EL display, as a display, manufactured by the manufacturing method according to Claim 1.

12. An electronic device using an organic EL display, as a display, manufactured by the manufacturing apparatus according to Claim 4.

13. An electronic device using an organic EL display or liquid crystal display, as a display, using a color filter manufactured by the manufacturing method according to Claim 6.

14. An electronic device using an organic EL display or liquid crystal display, as a display, using a color filter manufactured by the manufacturing apparatus according to Claim 9.